

Mineral Industry Surveys

For information, contact:

Robert G. Reese, Jr., Vanadium Commodity Specialist U.S. Geological Survey

989 National Center Reston, VA 20192

Telephone: (703) 648-4981, Fax: (703) 648-7757

E-mail: rreese@usgs.gov

Loren Duncan (Data) Telephone: (703) 648-7972 Fax: (703) 648-7975

MINES FaxBack: (703) 648-4999

Internet: http://minerals.usgs.gov/minerals

VANADIUM IN JUNE 1999

According to *Metal Bulletin*, U.S. ferrovanadium prices during June ranged from \$5.10 to \$5.25 per pound of vanadium content, compared with \$5.10 to \$5.30 in May. The range for European ferrovanadium prices was \$10.40 to \$10.85 per kilogram in June.

In May, European ferrovanadium prices ranged from \$10.30 to \$10.90. For vanadium pentoxide, the June range as published by *Metal Bulletin* was \$1.98 to \$2.20 per pound, while in May it was \$1.93 to \$2.08.

${\bf TABLE~1} \\ {\bf U.S.~CONSUMPTION~AND~CONSUMER~STOCKS~OF~VANADIUM,~BY~FORM~1/} \\$

(Kilograms, contained vanadium)

	1999						
	1998 p	1998 p/		May		June	
	Consumption	Stocks	Consumption	Stocks	Consumption	Stocks	
Ferrovanadium 2/	3,710,000	317,000	233,000	367,000	238,000	283,000	
Vanadium-aluminum alloy	W	13,600	W	15,800	W	12,200	
Other 3/	506,000	10,200	31,800	11,800	32,500	9,120	
Total	4,220,000	341,000	265,000	394,000	271,000	304,000	

p/ Preliminary. W Withheld to avoid disclosing company proprietary data; included with "Other."

 ${\bf TABLE~2} \\ {\bf U.S.~CONSUMPTION~OF~VANADIUM,~BY~END~USE~1/}$

(Kilograms, contained vanadium)

	1998 p/	May	June	Year to date
Steel:				
Carbon	1,420,000	80,700	83,700	538,000
High-strength low-alloy	1,020,000	49,300	55,400	312,000
Stainless and heat-resisting	42,500	7,100	5,460	42,200
Full alloy	930,000	57,900	49,800	365,000
Tool	263,000	32,200	28,000	174,000
Total steel	3,670,000	227,000	222,000	1,430,000
Superalloys	20,900	1,330	1,240	7,580
Miscellaneous and unspecified 2/	526,000	36,300	46,900	242,000
Total consumption	4,220,000	265,000	271,000	1,680,000

p/ Preliminary.

^{1/} Data are rounded to three significant digits; may not add to totals shown.

^{2/} Includes other vanadium-iron-carbon alloys as well as vanadium oxides added directly to steel.

^{3/} Includes other vanadium alloys, vanadium metal, vanadium pentoxide, vanadates, chlorides, other specialty chemicals, and items indicated by symbol "W."

^{1/} Data are rounded to three significant digits; may not add to totals shown.

^{2/} Includes cast irons, alloys excluding steel and superalloys, chemical and ceramic uses, and other miscellaneous and unspecified uses.

TABLE 3 U. S. IMPORTS AND EXPORTS OF ALUMINUM-VANADIUM MASTER ALLOY AND VANADIUM METAL, INCLUDING WASTE AND SCRAP $\,1/$

(Kilograms, gross weight)

	Aluminum-vanadium master alloy		Vanadium metal, including waste and scrap	
	Quantity	Value	Quantity	Value
Imports for consumption:				
1998	298,000	\$496,000	12,200	\$491,000
1999:				
March			68	47,000
April			9,990	187,000
May:				
Germany			2,320	65,700
Year to date			19,700	431,000
Exports:				
1998	856,000	11,500,000	346,000	7,160,000
1999:				
March	44,600	581,000	28,800	4,900,000
April	88,200	1,150,000	16	38,500
May:				
Canada	886	11,500		
Finland			7	6,000
Germany			10	7,900
Italy	1,420	18,400		
Mexico	16,200	211,000		
United Kingdom	1,310	17,100	18,500	338,000
Total	19,800	258,000	18,600	352,000
Year to date	168,000	2,200,000	87,200	1,640,000

^{1/} Data are rounded to three significant digits; may not add to totals shown.

Source: Bureau of the Census

${\it TABLE~4}$ U. S. IMPORTS AND EXPORTS OF FERROVANADIUM, VANADIUM PENTOXIDE (ANHYDRIDE) AND OTHER OXIDES AND HYDROXIDES OF VANADIUM $\,1/$

(Kilograms, contained vanadium)

	Ferrovanadium		Vanadium pentoxide (anhydride) 2/		Other oxides and hydroxides of vanadium	
	Quantity	Value	Quantity	Value	Quantity	Value
Imports for consumption:						
1998	1,620,000	\$39,300,000	847,000	\$12,300,000	33,000	\$574,000
1999:						
March	59,200	753,000				
April	156,000	1,660,000	814	13,500		
May:						
Austria	43,100	460,000				
Canada	37,900	493,000				
Japan			1,000	12,200		
South Africa	113,000	1,200,000				
Total	195,000	2,150,000	1,000	12,200		
Year to date	612,000	7,800,000	29,400	365,000		
Exports:						
1998	579,000	13,700,000	681,000	6,850,000	232,000	2,830,000
1999:						
March	24,900	365,000	61,000	415,000	3,130	35,400
April	24,900	356,000	42,600	245,000	5,650	65,700
May:						
Belgium			70,300	366,000		
Brazil			4,020	14,200		
Canada	16,300	222,000			5,900	77,700
Germany			33,700	187,000		
Italy			12,600	67,600		
Mexico	376	6,730				
Total	16,700	228,000	121,000	635,000	5,900	77,700
Year to date p/ 3/	140,000	2,070,000	467,000	2,860,000	28,500	305,000

p/ Preliminary.

Source: Bureau of the Census

^{1/} Data are rounded to three significant digits; may not add to totals shown.

^{2/} May include catalysts containing vanadium pentoxide.

^{3/} May include revisions to previous months' data.

 ${\bf TABLE~5} \\ {\bf U.S.~IMPORTS~FOR~CONSUMPTION~OF~VANADIUM-BEARING~ASH,~SLAG~1/}$

(Kilograms, contained vanadium pentoxide)

	Ash and residues		Ash and residues (not from the manufacture of iron and steel)		Slag, from the manufacture of iron and steel	
	Quantity	Value	Quantity	Value	Quantity	Value
Imports for consumption:						
1998	3,030,000	\$9,960,000	2,280,000	\$1,710,000	1,250,000	\$10,500,000
1999:						
March	229,000	1,090,000	154,000	93,600	279,000	558,000
April	292,000	942,000	202,000	115,000		
May:						
Canada	16,800	16,300	234,000	112,000		
Italy	202,000	110,000				
United Kingdom	67,700	116,000				
Total	287,000	242,000	234,000	112,000		
Year to date	1,100,000	3,080,000	877,000	463,000	279,000	559,000

^{1/} Data are rounded to three significant digits; may not add to totals shown.

Source: Bureau of the Census.

TABLE 6 U.S. IMPORTS FOR CONSUMPTION OF MISCELLANEOUS VANADIUM CHEMICALS 1/

(Kilograms, contained vanadium)

	Sulfat	tes	Vanadates		
	Quantity	Quantity Value		Value	
Imports for consumption:					
1998	350	\$19,300	129,000	\$1,410,000	
1999:					
March			16,400	143,000	
April			630	36,100	
May:					
Germany			572	42,600	
Japan			4	12,600	
Total			576	55,200	
Year to date			41,300	481,000	

^{1/} Data are rounded to three significant digits; may not add to totals shown.

Source: Bureau of the Census